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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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02/24/2004

Koji Ishizaki

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TAKEUCHI & KUBOTERA, LLP
SUITE 202
200 DAINGERFIELD ROAD
ALEXANDRIA, VA 22314

EXAMINER

DICKER, DENNIS T

ART UNIT

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DELIVERY MODE

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/784,179	Applicant(s) ISHIZAKI, KOJI	
	Examiner DENNIS DICKER	Art Unit 2625	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 04 September 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 24 February 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 9/4/2008 has been entered.

Response to Arguments

2. Applicant's arguments with respect to claims 1-19 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claim 1, 2, 8, and 17 are rejected under 35 U.S.C. 102(e) as being anticipated by Saito (US PUB 20030202213)

As pertaining to **Claim 1**, Saito teaches an image forming apparatus (**i.e., 140 of fig 1, output device**) comprising: a data collecting section (**i.e., Para 0065 and 110 of Fig.1, print data editing device**) to reduce data of a plurality of pages and create collected data collected in one single medium (**i.e., Para 0156, 2up is set so 2 logical pages are arranged in on physical page**); a specific information creating section (**i.e., 115 of Fig. 1, drawing object addition setting unit**) to create specific information applied to the one single medium (**i.e., Para 0066, additional drawing object for print data added such as a watermark**); and a data editing section (**i.e., 133 of Fig. 1, Print instruction processing unit**) to overlap said specific information with said collected data (**i.e., Para 0072-0073 , processing the print information**) so that one single image of the specific information is printed over at least two of the pages (**i.e., Fig. 10 and Para 0165**).

As pertaining to **Claim 2**, Saito teaches an image forming apparatus which further comprises a setting section to set a parameter according to which said specific information is created (**i.e., Para 0066, additional drawing setting section for setting a parameter**).

With respect to **Claim 8**, Saito teaches an image forming apparatus wherein said specific information is data which corresponds to one of said plurality of pages (**i.e., Fig. 10, specific information 1002 or 1003 corresponds to one physical page**).

With respect to **Claim 17**, Saito teaches an image forming apparatus wherein said data collecting section reduces the data of the pages at a first reduction rate (**i.e., Fig. 10, Logical page 4 and 5 reduced to Physical page 4 [2-up]**), said specific

Art Unit: 2625

information creating section creating the specific information at a second reduction rate different from the first reduction rate (**i.e., Fig. 10, specific information 1003 is reduced based on the size of the physical page not each specific logical page**).

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claim 3-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Saito in view of Mori (hereinafter "Mori '179"US 7,027,179).

With respect to **Claim 3**, Saito does not explicitly teach an image forming apparatus wherein said setting section sets a character string of said specific information.

However, the mentioned claimed limitations are well known in the art as evidenced by Mori '179, In particular, Mori '179 teaches the use of an image forming apparatus wherein said setting section sets a character string (**i.e., Col 6 Lines 18-26, User sets desired text string of watermark**) of said specific information.

In view of this, it would have been obvious to one having ordinary skill in the art at the time of invention was made to modify the image forming apparatus of Saito as taught by Mori '179 since Mori '179 suggested in Col. 1 Line 66 - Col. 2 Line 4 that such

Art Unit: 2625

a modification would permit an image forming apparatus to generate a print job in a simple reliable manner so that an the device forms images with a plurality of different watermarks based on the print job.

With respect to **Claim 4**, Saito does not explicitly teach an image forming apparatus wherein said setting section sets a position for overlapping said specific information with said collected data.

However, the mentioned claimed limitations are well known in the art as evidenced by Mori '179, In particular, Mori '179 teaches the use of an image forming apparatus wherein said setting section sets a position (**i.e., 13 of Fig. 3 and Col 6 Lines 40-43, Position section sets position of watermark**) for overlapping said specific information with said collected data (**i.e., Col 2 Lines 13-20, combining unit combines watermark and image data**).

In view of this, it would have been obvious to one having ordinary skill in the art at the time of invention was made to modify the image forming apparatus of Saito as taught by Mori '179 since Mori '179 suggested in Col. 1 Line 66 - Col. 2 Line 4 that such a modification would permit an image forming apparatus to generate a print job in a simple reliable manner so that an the device forms images with a plurality of different watermarks based on the print job.

With respect to **Claim 5**, Saito does not explicitly teach an image forming apparatus wherein said setting section sets a rotation angle when overlapping said specific information with said collected data.

However, the mentioned claimed limitations are well known in the art as evidenced by Mori '179, In particular, Mori '179 teaches the use of an image forming apparatus wherein said setting section sets a rotation angle (**i.e., Col 6 Line 40 ,Orientation angle of watermark may be set)** when overlapping said specific information with said collected data. (**i.e., Col 2 Lines 13-20, combining unit combines watermark and image data**).

In view of this, it would have been obvious to one having ordinary skill in the art at the time of invention was made to modify the image forming apparatus of Saito as taught by Mori '179 since Mori '179 suggested in Col. 1 Line 66 - Col. 2 Line 4 that such a modification would permit an image forming apparatus to generate a print job in a simple reliable manner so that an the device forms images with a plurality of different watermarks based on the print job.

7. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Saito as applied to Claim 2 and further in view of Reed et al. (hereinafter "Reed '996" 6,590,996)

With respect to **Claim 6**, Saito does not explicitly teach an image forming apparatus wherein said setting section sets a color of said specific information.

However, the mentioned claimed limitations are well known in the art as evidenced by Reed '996, In particular, Reed '996 teaches the use of an image forming apparatus wherein said setting section sets a color of said specific information (**i.e., Col 15 Lines 30-33, Color of watermark may be set**).

In view of this, it would have been obvious to one having ordinary skill in the art at the time of invention was made to modify the image forming apparatus of Saito as taught by Reed '996 since Reed '996 suggested in Col. 1 Lines 30-36 that such a modification would permit color masking of watermarks and make color components such that the change is less visible.

8. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Saito as applied to Claim 2 above and further in view of Hyakutake et al. (hereinafter "Hyakutake '690" 7,142,690)

With respect to **Claim 7**, Saito does not explicitly teach an image forming apparatus wherein said setting section sets a density of specific information.

However, the mentioned claimed limitations are well known in the art as evidenced by Hyakutake '690, In particular, Hyakutake '690 teaches the use of an image forming apparatus wherein said setting section sets a density of specific information (**i.e., Col. 16 Lines 22-34, setting section comprises an image density adjuster to set density of watermark**).

In view of this, it would have been obvious to one having ordinary skill in the art at the time of invention was made to modify the image forming apparatus of Saito as taught by Hyakutake '690 since Hyakutake '690 suggested in **Col. 2 Lines 20-23** that such a modification would permit a method to manage the distribution of sensitive documents to unauthorized users.

Art Unit: 2625

9. Claims 9, 11 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Saito and further in view of Lapstun et al (hereinafter "Lapstun '000" 6,728,000).

With respect to **Claim 9**, Saito teaches an image forming apparatus (**i.e., 140 of fig 1,output device**) comprising: an image creating section (**i.e., Para 0065 and 110 of Fig.1, print data editing device**) to create image data of a plurality of pages (**i.e., Para 0156, 2up is set so 2 logical pages are arranged in on physical page**); a specific information creating section (**i.e., 115 of Fig. 1, drawing object addition setting unit**) to create specific information overlapped with said image data so that one single image of the specific information (**i.e., Para 0066, additional drawing object for print data added such as a watermark**) is printed over at least two of the pages (**i.e., Fig. 10 and Para 0165**); and a data transmitting section (**i.e.,134 of Fig. 1**) to output said specific information inverted in said specific information inverting section and said image data (**i.e., Para 0074**).

Saito does not explicitly teach a specific information inverting section to invert said specific information.

However, the mentioned claimed limitations are well known in the art as evidenced by Lapstun '000, In particular, Lapstun '000 teaches the use of inverting section (**i.e., Col. 34 Lines 46-47, dither matrix**) to invert said specific information (**i.e., Col. 34 Lines 47-53, Dither matrix is used to create inverted watermarks**).

In view of this, it would have been obvious to one having ordinary skill in the art at the time of invention to modify the image forming apparatus of Saito as taught by

Lapstun '000 since Lapstun '000 suggested in Col. 34 Lines 54-60 that such a modification would permit secure documents when photocopying.

With respect to **Claim 11**, Saito teaches an image forming apparatus wherein said image creating section is capable of reducing the image data of the page and creating collected data collected in said sheet of said print medium (**i.e., Para 0156, 2up is set so 2 logical pages are arranged in on physical page See Fig. 10**).

With regards to the image forming apparatus of **Claim 18**, the limitations of the claim 18 are corrected by limitation of claim 17 above. The steps of claim 18 read into the function steps of claim 17.

10. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable Saito and Lapstun '000 as applied to Claim 9 and further in view of Hernandez (hereinafter "Hernandez 428" US 6,650,428).

With respect to **Claim 10**, the combination of Saito and Lapstun '000 does not explicitly teach an image forming apparatus wherein said inverted specific information and said image data are created as data which are printed on front and back faces of a sheet of print medium, respectfully .

However, the mentioned claimed limitations are well known in the art as evidenced by Hernandez 428, In particular, Hernandez 428, teaches the use of an image forming apparatus wherein said inverted specific information (**i.e., Col. 3 Line 60, Watermark information**) and said image data (**i.e., Col. 3 Line 62, Relevant material**) are created as data which are printed on front and back faces of a sheet of print

Art Unit: 2625

medium, respectfully (**i.e., Col. 3 Line 59- Col 4 Line 2, Image data can be printed on one side while the watermark information another side of a print medium**).

In view of this, it would have been obvious to one having ordinary skill in the art at the time of invention was made to modify the image forming apparatus of Saito and Lapstun '000 as taught by Hernandez 428 since Hernandez 428 suggested in Col. 1 Lines 35-38 that such a modification would permit a method for protecting confidential information using standard paper and a method to distinguish between previously printed sides of multi page document and newly printed sides.

11. Claim 12, 14, 16 and 19 are rejected under 35 U.S.C. 102(e) as being anticipated by Gillihan '262 in view of Mori '179 and Davidson et al. (hereinafter "Davidson '485" 6,952,485).

With respect to **Claim 12**, Saito teaches an image forming apparatus (**i.e., 140 of fig 1, output device**) comprising: an image creating section (**i.e., Para 0065 and 110 of Fig.1, print data editing device**) to create image data of a plurality of pages from document data (**i.e., Para 0156, 2up is set so 2 logical pages are arranged in on physical page**); said specific information being overlapped with said image data (**i.e., Para 0066, additional drawing object for print data added such as a watermark**) so that one single image (**i.e., Para 0072-0073 , processing the print information**) of the specific information is printed over at least two of the pages (**i.e., Fig. 10 and Para 0165**); and a data transmitting section (**i.e.,134 of Fig. 1**) to output said specific information and said image data (**i.e., Para 0074**).

Saito does not explicitly teach an image forming apparatus comprising document information extracting section to extract document information from said document data; a specific information creating section to create specific information from said document information extracted by said document information extracting section.

However, the mentioned claimed limitations are well known in the art as evidenced by Davidson '485, In particular, Davidson '485 teaches the use of an image forming apparatus comprising a document information extracting section **(i.e., Col. 2 Line 30, Encoder Application)** to extract document information from said document data **(i.e., Col. 2 Lines 34-35 , Encoder application extracts data about a document and stores it as metadata)**; a specific information creating section to create specific information from said document information **(i.e., Col. 2 Lines 35-38, A watermark is created from another application)** extracted by said document information extracting section **(i.e., Col. 2 Lines 35-38 , Metadata about document is extracted and included in watermark)**.

In view of this, it would have been obvious to one having ordinary skill in the art at the time of invention was made to modify the image forming apparatus of Saito as taught by Davidson '485 since Davidson '485 suggested in Col. 8 Lines 6-10 that such a modification would enable the watermark functionality to operate in a manner that is independent of the application program that utilized the driver to send or receive data from an imaging peripheral.

With regards to the image forming apparatus of **Claim 14**, the limitation of the claim 14 are corrected by limitation of claim 11 above. The steps of claim 14 read into

Art Unit: 2625

the function steps of claim 11.

With respect to **Claim 16**, Saito does not explicitly teach an image forming apparatus wherein said document information is data which can identify a printing person.

However, the mentioned claimed limitations are well known in the art as evidenced by Davidson '485, In particular, Davidson '485 teaches the use of an image forming apparatus wherein said document information (**i.e., Col. 2 Line 36 , Metadata)** is data which can identify a printing person (**i.e., Col. 2 Lines 30-38, Metadata includes user information**).

In view of this, it would have been obvious to one having ordinary skill in the art at the time of invention was made to modify the image forming apparatus of Saito as taught by Davidson '485 since Davidson '485 suggested in Col. 8 Lines 6-10 that such a modification would enable the watermark functionality to operate in a manner that is independent of the application program that utilized the driver to send or receive data from an imaging peripheral.

With regards to the image forming apparatus of **Claim 19**, the limitations of the claim 19 are corrected by limitations of claim 17 above. The steps of claim 19 read into the function steps of claim 17.

12. Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Saito and Davidson '485 as applied to Claim 12 and further in view of Hernandez '428.

With respect to **Claim 13**, the combination of Saito and Davidson '485 do not teach an image forming apparatus a wherein said extracted specific information and said image data are created as data which are printed on front and back faces of a print medium, respectfully.

However, the mentioned claimed limitations are well known in the art as evidenced by Hernandez 428, In particular, Hernandez 428, teaches the use of an image forming apparatus a wherein said specific information (**i.e., Col. 3 Line 60, Watermark information**) and said image data (**i.e., Col. 3 Line 62, Relevant material**) are created as data which are printed on front and back faces of a print medium, respectfully (**i.e., Col. 3 Line 59-Col 4 Line 2, Image data can be printed on one side while the watermark information another side of a print medium**).

In view of this, it would have been obvious to one having ordinary skill in the art at the time of invention was made to modify the image forming apparatus of Saito and Davidson '485 as taught by Hernandez 428 since Hernandez 428 suggested in Col. 1 Lines 35-38 that such a modification would permit a method for protecting confidential information using standard paper and a method to distinguish between previously printed sides of multi page document and newly printed sides.

13. Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Saito and Davidson '485 as applied to Claim 12 and further in view of Stefik et al (hereinafter "Stefik '557" 2001/00085557).

With respect to **Claim 15**, the combination of Saito and Davidson '485 do not teach an image forming apparatus a wherein said document data has a specific symbol for extracting said document information.

However, the mentioned claimed limitations are well known in the art as evidenced by Stefik '557, In particular, Stefik '557 teaches the use of image forming apparatus a wherein said document data has a specific symbol (**i.e., Para 0006 , Fingerprint**) for extracting said document information. (**i.e., Para 0081, Fingerprint embedded in watermark marks the document to enable authorized usage**).

In view of this, it would have been obvious to one having ordinary skill in the art at the time of invention was made to modify the image forming apparatus of Saito and Davidson '485 as taught by Stefik '557 since Stefik '557 suggested in Para 0014-0015 that such a modification would provide information associated with that copy of the document and information relating to the rendering event, where the information will typically aid in deterring or preventing unauthorized copying of the rendered work.

Conclusion

14. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
15. Mori (US 7,027,179) Generating a watermark for a plurality of pages.
16. Minagawa Tomonori (JP 2000-222159) Image processing method for combining 2 or more image outputs such as n-up and watermark printing.

Art Unit: 2625

17. Any inquiry concerning this communication or earlier communications from the examiner should be directed to DENNIS DICKER whose telephone number is (571)270-3140. The examiner can normally be reached on Monday -Thursday 7:30 A.M. to 5:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Twyler Haskins can be reached on (571) 272-7406. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/D. D./
Examiner, Art Unit 2625
11/19/2008

/Mark K Zimmerman/
Supervisory Patent Examiner, Art Unit 2625